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(11) EP 0 812 096 A3

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
01.12.1999 Bulletin 1999/48

(43) Date of publication A2:
10.12.1997 Bulletin 1997/50

(21) Application number: 97303036.4

(22) Date of filing: 02.05.1997

(51) Int. Cl.⁶: H04M 3/42, H04M 7/00,
H04Q 3/00, H04Q 3/72,
H04N 5/00

(84) Designated Contracting States:
BE DE FR GB IT LU NL

(30) Priority: 03.06.1996 US 660087

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(54) **Method and apparatus for managing communications between a client and a server in a network**

(57) A client (1) is coupled to a modem pool (2) and a server (4) by a communication link in a wide area network. The client allows a user to browse the World Wide Web in response to user inputs entered entirely from a remote control device using a television set as a display device. The communication link to the client is shared by a telephone circuit at the client end of the link. A disruption in communication with the server may occur due to a Call Waiting signal caused by an incoming telephone call. The incoming call includes Caller ID information. In response to such a disruption, communication with the server is terminated. After pausing for a predetermined period of time, the client automatically re-establishes communication with the server if the line is clear. Upon reconnecting to the server, the client accesses a "White Pages" telephone directory Web site on a remote server. Using the number provided in the Caller ID information, the client looks up the name of the caller from the directory and stores the number and the corresponding name. Each time an incoming call is subsequently received from that number, the client displays the name of the calling party to the user as the call is received.

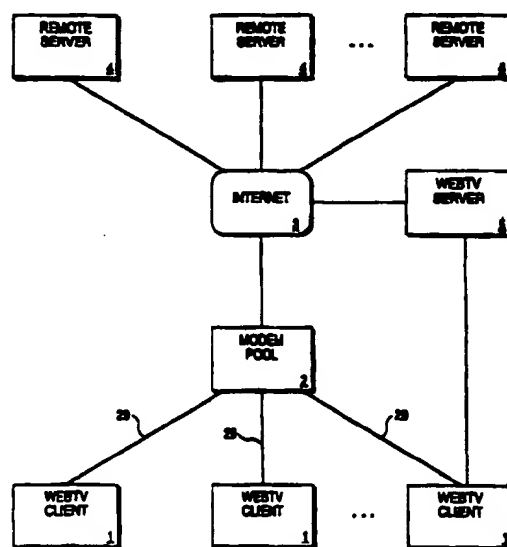


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 97 30 3036

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 4 852 151 A (DITTAKAVI ASHOK ET AL) 25 July 1989	1-3,6,7	H04M3/42 H04M7/00
A	* column 3, line 55 - column 4, line 30 * * column 6, line 24 - line 42 * * column 7, line 19 - line 63 * * column 10, line 5 - line 53 *	14-16	H04Q3/00 H04Q3/72 H04N5/00
E	US 5 651 060 A (COHN HAROLD E ET AL) 22 July 1997 * the whole document *	1-3,6,7	
A	US 4 922 523 A (HASHIMOTO KAZUO) 1 May 1990 * the whole document *	1-7, 14-16	
A	US 4 995 074 A (GOLDMAN BRUCE J ET AL) 19 February 1991 * abstract * * column 3, line 45 - column 4, line 61 *	1-7, 14-16	
A	US 5 519 767 A (O'HORO PATRICK J ET AL) 21 May 1996 * column 4, line 12 - column 5, line 22 *	1-7, 14-16	TECHNICAL FIELDS SEARCHED (Int.Cl.6) H04M
<p>The present search report has been drawn up for all claims</p>			
Place of search THE HAGUE		Date of completion of the search 27 May 1999	Examiner Megalou, M
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			



European Patent
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Application Number

EP 97 30 3036

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-7, 14-16



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 97 30 3036

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-7,14-16

Method of responding to a disruption signal detected by the client processing system during communication with a modem.

2. Claims: 8-13

Method of establishing communication between a client system and a server based on cost criteria.

3. Claims: 17-24

Method of providing the identity of a calling party to the user of the client processing system after retrieving that information based on accessing a telephone directory on a remote server using the caller ID.

4. Claims: 25-31

Client system for communication with a remote server system allowing the user to navigate through an interactive display environment on a television set for handling an incoming telephone call.

5. Claims: 32-34

Client system for handling unread electronic mail.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 97 30 3036

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

27-05-1999

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